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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1-33. (canceled).

34. (currently amended): The expression vector according to claim 33 An expression

vector, comprising:

(a) a first coding region encoding a peptidyl-prolyl cis-trans isomerase (PPIase) having

molecular chaperone activity, and

(b) a region having at least one restriction enzyme site in the same reading frame as the

first coding region into which a second coding region encoding a desired protein can be inserted

to encode a fusion protein between the PPIase and the desired protein,

wherein the PPIase is archaebacterial FKBP-type PPIase comprising an IF domain,

wherein the first coding region is operatively linked to a promoter, and the restriction

enzyme site is in the same reading frame as the first coding region, and is downstream of the first

coding region.

35. (currently amended): The expression vector according to claim 3433,

which has a region between the first coding region and the region having at least one

restriction enzyme site in which a second coding region can be inserted a third coding region is

inserted,

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wherein the <u>third coding</u> region encodes a protease digestion site in the same reading frame as (a).

36. (currently amended): The expression vector according to claim 3334, further comprising a second coding region encoding a desired protein.

37-40. (canceled).

41. (currently amended): The expression vector according to claim 3334, wherein the archaebacterial FKBP-type PPIase is short type FKBP-type PPIase.

42. (currently amended): The expression vector according to claim 3334, wherein the PPIase having molecular chaperone activity comprises an IF domain and/or-a C-terminal domain of archaebacterial FKBP-type PPIase.

43-52. (canceled).

- 53. (previously presented): The expression vector according to claim 36, wherein the second coding region has a nucleotide sequence encoding a monoclonal antibody.
 - 54. (previously presented): The expression vector according to claim 36,

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wherein the second coding region has a nucleotide sequence encoding a membrane protein.

55. (currently amended): An isolated host cell,

which contains the expression vector according to claim 3334.

56. (previously presented): The host cell according to claim 55,

which is Escherichia coli.

57-58. (canceled).

59. (previously presented): A process for producing a fused protein comprising

PPIase having molecular chaperone activity and a desired protein,

comprising culturing a host cell transformed with the expression vector of claim 36 to

express the fused protein.

60. (currently amended): The process for producing a fused protein according to

claim 59,

which comprises culturing the host cell containing the expression vector under conditions

suitable for expression of the expression vector to produce the fused protein in [[a]]the cytoplasm

of said host cell.

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61. (currently amended): The process for producing a fused protein according to

claim 59,

which comprises providing a region being transcribed and translated to be a signal

sequence at the 5' terminus of a coding region of the expression vector that encodes the N-

terminus of the fused protein, and culturing a host containing the expression vector under

conditions suitable for expression of the expression vector to produce the fused protein in

[[a]]the periplasm or [[a]]the medium of said host cell.

62. (previously presented): A process for producing a fused protein comprising in

vitro transcription and translation of the expression vector of claim 36, in a cell-free translation

system using a bacteria extract or a eukaryotic extract.

63. (previously presented): The process for producing a fused protein according to

claim 59,

wherein the fused protein is adsorbed on a carrier bound to a macrolide, cyclosporine,

juglone, or a compound which inhibits PPIase activity, wherein said carrier is recovered and the

fused protein is recovered from the carrier.

64. (currently amended): A process for producing a desired protein,

which comprises producing a fused protein by the process of claim 59 and digesting

[[a]]the fused protein-comprising a protease-digestion site obtained by the process according to

elaim 59, with a protease that digests the protease digestion site.

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